

**The University of Jordan
School of Engineering**



Department	Course Name	Course Number	Semester
Mechanical Engineering	Project (2) for mechanical engineer	0974599	

2019 Course Catalog Description

The students carry out detailed design, construction and testing (if any), write a comprehensive report on the work as per the format posted on the department web site. The report should include, where applicable, economical and environmental assessments. The project work is presented by the students to an examination panel who judge the work.

Instructors

All Final Year Projects' Supervisors

References

Books	
Journals	
Internet links	Final Year Project Journal

Prerequisites

Prerequisites by topic	5 th year level (Successfully completed 120 credit hours).
Prerequisites by course	Project (1) for mechanical engineer 0974598
Co-requisites by course	
Prerequisite for	

Topics Covered

Week	Topics
	Seminar (1): Technical writing for reports (1)
	Seminar (2): Scheduling of the projects over time
	Seminar (3): Final Year Project issues

Mapping of Course Outcomes to ABET Student Outcomes

SOs	Course Outcomes
1	1. Ability to propose engineering solutions to the project problem
2	2. Ability to document the work in logical sequence with good technical content accuracy and engineering soundness
3	3. Ability to present results with: analysis, interpretation, sample calculation, error and trend analysis
4	4. Ability to apply knowledge ethically during report writing and cited other peoples work 5. Ability to state the impact of Eng. solutions: global, economic, environmental and societal
5	6. Ability to write complete, concise, specific, and self-sufficient abstract 7. Ability to work and perform as a team member
6	8. Ability to state specific conclusions point out directions or actions to be taken for future work 9. Ability to perform literature review and data collection
7	10. Ability to understand the significance of the work and project outcomes

Evaluation

Assessment Tools	Expected Due Date	Weight
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Senior Design Project (1) Reports (Evaluated by the Supervisor)	End of the first semester	20
Senior Design Project (1) Progress Report (Evaluated by the committee)	End of the first semester	10
Senior Design Project (2) Reports (Evaluated by the Supervisor)	End of the second semester	20
Format Adherence Committee	End of the second semester	5
Examination Committee Evaluation	End of the second semester	15
Presentation Committee Evaluation	End of the second semester	20
Poster	End of the second semester	10

Contribution of Course to Meet the Professional Components

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Relationship to Student Outcomes

SOs	1	2	3	4	5	6	7
Availability	X	X	X	X	X	X	X

Relationship to Mechanical Engineering Program Objectives (MEPOs)

MEPO1	MEPO2	MEPO3	MEPO4	MEPO5

ABET Student Outcomes (SOs)

1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3	An ability to communicate effectively with a range of audiences
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Updated by ABET Committee, 2021